

Appl. No. 10/780,846
Atty. Docket No. 9527LS
Amdt. dated June 13, 2006
Reply to Office Action of March 14, 2006
Customer No. 27752

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Original): A method of making an article having elastic-like behavior comprising the steps of:

Introducing a sheet material having at least one overlapped portion;

Forming said overlapped portion of sheet material into a strainable network including a plurality of first regions and a plurality of second regions, said first regions being substantially un-deformed and said second regions being formed into disengagable pleat elements; and

Disengaging said pleat elements using a disengaging means.

Claim 2 (Original): The method of making an article according to claim 1, wherein said disengaging means is selected from the group consisting of air knife, static opening bar, dynamic opening bar, and suction means, and any combinations thereof.

Claim 3 (Original): The method of making an article according to claim 1, further comprising the step of overlapping one portion of sheet material over another portion of sheet material.

Claim 4 (Original): The method of making an article according to claim 2, further comprising the step of separating said overlapped portions of said sheet material using said disengaging means.

Claim 5 (Original): The method of making an article according to claim 2, wherein said dynamic opening bar comprises at least one first set of rollers and said pleat elements are disengaged from each other while at least one portion of said sheet material rides over an opposite outer segment of at least one roller.

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Claim 6 (Original): The method of making an article according to claim 5, wherein said dynamic opening bar includes an end cap.

Claim 7 (Original): The method of making an article according to claim 5, wherein said dynamic opening bar is wholly surrounded by said overlapped portions of said sheet material.

Claim 8 (Original): The method of making an article according to claim 5, wherein said dynamic opening bar comprises a second set of rollers and said pleat elements remain engaged as said sheet material passes between a first set of rollers and thereafter said pleat elements are disengaged while at least a portion of said sheet material is riding over at least one opposite outer segment of a second set of rollers.

Claim 9 (Original): The method of making an article according to claim 1, wherein said disengaging step further comprising riding said sheet material on said disengaging means.

Claim 10 (Original): The method of making an article according to claim 2, wherein the step of forming further comprises forming said pleat elements as said sheet material passes between a pair of forming rollers, at least one forming roller having toothed regions and grooved regions.

Claim 11 (Original): The method of making an article according to claim 2, wherein said disengaging step further comprises the step of applying a vacuum to at least one overlapped portion of said sheet material.

Claim 12 (Original): The method of making an article according to claim 1, further comprising the step of winding said sheet material onto a roll.

Claim 13 (Original): The method of making an article according to claim 1, further comprising the step of incorporating a closure means into said sheet material.

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Claim 14 (Original): The method of making an article according to claim 1, further comprising the step of unwinding a continuous web of sheet material from a roll.

Claim 15 (Original): The method of making an article according to claim 1, further comprising the steps of extruding a raw plastic material and converting the extruded plastic material into a continuous web of sheet material.

Claim 16 (Original): The method of making an article according to claim 1, further comprising the step of forming flexible bags from said sheet material.

Claim 17 (Original): The method of making an article according to claim 16, further comprising the step of sealing at least one edge of said flexible bag, and severing said sheet material across a width thereof at said sealed edge to separate said sheet material into individual flexible bags.

Claim 18 (Original): The method of making an article according to claim 16, further comprising the step of sealing at least one edge of said flexible bag, and perforating said sheet material across a width thereof at said sealed edge.

Claim 19 (Original): The method of making an article according to claim 18, further comprising the step of interleaving said individual flexible bags.

Claim 20 (Original): A method of making an article having elastic-like behavior comprising the steps of:

Introducing at least one sheet material having at least one overlapped portion;

Forming said overlapped portion of sheet material into at least one region of disengagable pleat elements; and disengaging said pleat elements using a disengaging means selected from the group consisting of air knife, static opening bar, dynamic opening bar, and suction means, and any combinations thereof.